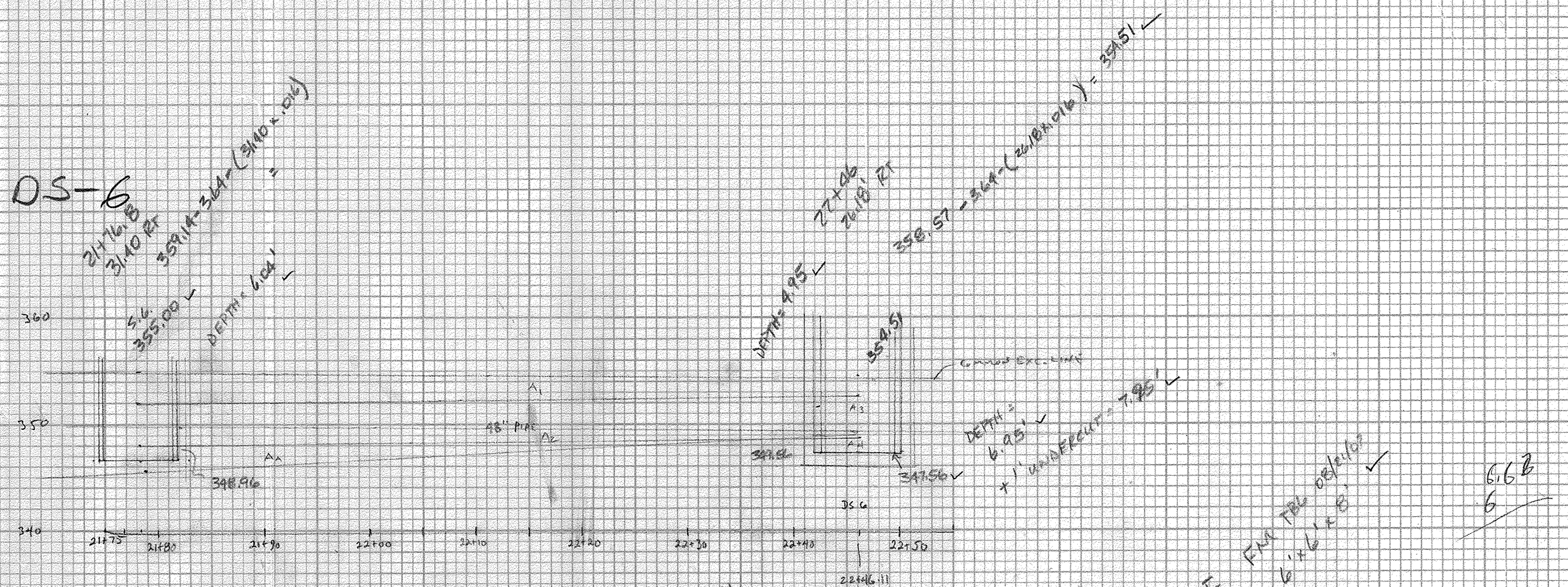


FINAL SURVEY BY DATE  
DUPLICATE BY DATE  
NOTE BOOK NO. AREA CHECKED

ORIGINAL SURVEY BY DATE  
DUPLICATE BY DATE  
NOTE BOOK NO. AREA CHECKED



TRENCH EXC. FOR PIPE 45'  
 $A_1 = \frac{1}{2} \times 58.2' \times (1.1' + 1.1') / 27 = 65.92 \text{ CY} \checkmark$   
 TRENCH EXC. FOR PIPE 25'  
 $A_2 = \frac{1}{2} \times (1.1' + 1.1') \times 25' = 27.5 \text{ CY} \checkmark$   
 TRENCH EXC. FOR STRUCTURE 45'  
 $A_3 = \frac{1}{2} \times 5' \times (1.1' + 1.1') = 5.5 \text{ CY} \checkmark$   
 TRENCH EXC. FOR STRUCTURE 25'  
 $A_4 = \frac{1}{2} \times (1.1' + 1.1') \times 25' = 27.5 \text{ CY} \checkmark$   
 TOTAL TRENCH EXC. = 126.42 CY

REMOVE EXISTING PIPE 25'  
 $A_5 = \frac{1}{2} \times (1.1' + 1.1') \times 25' = 27.5 \text{ CY} \checkmark$   
 REMOVE EXISTING STRUCTURE 45'  
 $A_6 = 3' \times 6' \times 45' = 81 \text{ CY} \checkmark$   
 REMOVE EXISTING STRUCTURE 25'  
 $A_7 = 3' \times 6' \times 25' = 45 \text{ CY} \checkmark$   
 TOTAL TRENCH EXC. = 126.42 CY  
 TOTAL = 65.92 + 27.5 + 5.5 + 27.5 + 81 + 45 = 252.42 CY  
 TOTAL = 126.42 CY  
 118.53 CY  
 TBG 01/25/08

GRAVELL BACKFILL  
 PIPE  
 $A_8 = 58.2' \times 6.1' \times 14.55 \text{ SF} = 2913 \text{ SF} \checkmark$   
 $A_9 = \frac{1}{2} \times (2.05' + 2.05') \times 58.2' = 118.53 \text{ SF} \checkmark$   
 STRUCT.  
 $A_{10} = (4.50' + 1.1') \times 58.2' = 325.92 \text{ SF} \checkmark$   
 TOTAL = 722.23 SF / 27 = 26.75 CY  
 TBG 01/25/08